AMENDMENT UNDER 37 C.F.R. 1.312
EXPEDITED PROCEDURE
EXAMINING GROUP 1754
PATENT
Application # 10/617,513
Attorney Docket # 1026-011

AMENDMENTS TO THE CLAIMS

- (Original) A method of reducing hydrogen sulfide content in a medium, comprising:
 adding Fe-MGDA and a peroxide to a medium with a hydrogen sulfide content; and
 reducing the hydrogen sulfide content in the medium.
- 2. (Original) The method of claim 1, wherein the hydrogen sulfide content is lowered though an oxidation reaction.
- 3. (Original) The method of claim 1, further comprising reducing the hydrogen sulfide content to a non-detectable amount.
- (Original) The method of claim 1, further comprising reducing odors caused by hydrogen sulfide.
- 5. (Original) The method of claim 1, further comprising preparing the Fe-MGDA.
- 6. (Original) The method of claim 1, further comprising contacting iron and MGDA to form Fe-MGDA.
- (Original) The method of claim 1, further comprising contacting Fe-MGDA and the peroxide to form a reaction product.
- 8. (Original) The method of claim 1, further comprising contacting Fe-MGDA and the peroxide to form an oxidizing agent.
- 9. (Original) The method of claim 1, further comprising mixing Fe-MGDA and the peroxide prior to adding to the medium containing hydrogen sulfide.
- 10. (Original) The method of claim 1, further comprising mixing Fe-MGDA and the peroxide after addition to the medium containing hydrogen sulfide.
- 11. (Original) The method of claim 1, further comprising adding Fe-MGDA and the peroxide simultaneously to the medium containing hydrogen sulfide.

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- 12. (Original) The method of claim 1, further comprising adding Fe-MGDA and the peroxide sequentially to the medium containing hydrogen sulfide.
- 13. (Original) The method of claim 1, further comprising conveying a mixture of the Fe-MGDA and peroxide to the medium containing hydrogen sulfide.
- 14. (Currently Amended) The method of claim 1, further comprising dispersing a mixture of Fe-MDGAMGDA and the peroxide in liquid form.
- 15. (Currently Amended) The method of claim 1, further comprising dispersing a mixture of Fe-MDGAMGDA and the peroxide in foam form.
- 16. (Currently Amended) The method of claim 1, further comprising dispersing a mixture of Fe-MDGAMGDA and the peroxide in solid form.
- 17. (Currently Amended) The method of claim 1, further comprising dispersing a mixture of Fe-MDGAMGDA and the peroxide in gaseous form.
- 18. (Currently Amended) The method of claim 1, further comprising dispersing a mixture of Fe-MDGAMGDA and the peroxide in aerosol form.
- 19. (Currently Amended) The method of claim 1, further comprising dispersing a mixture of Fe-MDGAMGDA and the peroxide in vapor form.
- 20. (Original) The method of claim 1, further comprising determining an optimal dose rate for the Fe-MGDA added to the medium.
- 21. (Original) The method of claim 1, further comprising determining an optimal pH for removing hydrogen sulfide from the medium.
- 22. (Original) The method of claim 1, wherein the pH for reducing the hydrogen sulfide content is between approximately 5 and approximately 9.6.
- 23. (Original) The method of claim 1, further comprising determining an optimal dose rate for the peroxide added to the medium.

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- 24. (Original) The method of claim 1, further comprising conveying the medium after treatment with Fe-MGDA and the peroxide.
- 25. (Original) The method of claim 1, further comprising discharging the medium after treatment with Fe-MGDA and the peroxide.
- 26. (Original) The method of claim 1, further comprising measuring the levels of hydrogen sulfide before treatment with Fe-MGDA and the peroxide.
- 27. (Original) The method of claim 1, further comprising measuring the levels of hydrogen sulfide after treatment with Fe-MGDA and the peroxide.
- 28. (Original) The method of claim 1, further comprising determining a reduction in hydrogen sulfide associated with the medium.
- 29. (Original) The method of claim 1, further comprising reducing hydrogen sulfide concentration in the medium to less than approximately 50 parts per million
- 30. (Original) The method of claim 1, further comprising reducing hydrogen sulfide concentration in the medium to less than approximately 20 parts per million.
- 31. (Original) The method of claim 1, further comprising reducing hydrogen sulfide concentration in the medium to less than approximately 10 parts per million.
- 32. (Original) The method of claim 1, further comprising reducing hydrogen sulfide concentration in the medium to less than approximately 5 parts per million.
- 33. (Original) The method of claim 1, further comprising reducing hydrogen sulfide concentration in the medium to less than approximately 1 part per million.
- 34. (Original) The method of claim 1, further comprising reducing hydrogen sulfide concentration in the medium to approximately non-detectable levels.
- 35. (Original) The method of claim 1, wherein the medium containing hydrogen sulfide is selected from: liquid, water, groundwater, leachate, wastewater, sewer water, blackwater, graywater, bilge water, ballast water, feed water, process water, industrial

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water, irrigation water, recreational water, pond water, lake water, creek water, river water, rain water, runoff water, pool water, cooling water, non-potable water, potable water, drinking water, semi-pure water, spent ultra-pure water, sour water, waste stream water.

- 36. (Original) The method of claim 1, wherein the medium is selected from: a solid, solids, biosolids, rubbish, trash, refuse, waste, medical waste, radioactive waste, sweepings, scourings, rubble, debris, detritus, scum, grease, sludge, sewage, jetsam, flotsam, soil, clay, dust, sand, gravel, stones, rock, sediment, activated charcoal, paint, chemical mixture.
- 37. (Original) The method of claim 1, wherein the medium containing the hydrogen sulfide is a vapor.
- 38. (Original) The method of claim 1, wherein the medium containing the hydrogen sulfide is a liquid.
- 39. (Original) The method of claim 1, wherein the medium containing the hydrogen sulfide is a slurry.
- 40. 41. (Canceled)
- 42. (Original) A method for removing hydrogen sulfide from a medium, comprising contacting the medium with a reaction product of Fe-MGDA and a peroxide.
- 43. (Currently Amended) A method of degrading hydrogen sulfide comprising: contacting a medium containing hydrogen sulfide with a reaction product of Fe-MDGAMGDA and a peroxide; and oxidizing the hydrogen sulfide.
- 44. (Currently Amended) A method of degrading hydrogen sulfide comprising: contacting a medium containing hydrogen sulfide with a reaction product of Fe-MDGAMGDA and a peroxide; and

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oxidizing the hydrogen sulfide.

- 45. (Original) The method of claim 44, wherein the reaction product is an oxidizing agent.
- 46. (Currently Amended) A method for reducing a concentration of a contaminant associated with a medium, comprising:
 - treating the medium with Fe-MDGAMGDA and an oxidizing agent; and reducing an odor produced by the contaminant.
- 47. (Original) A method for treating sewers, comprising:

 adding Fe-MGDa and a peroxide to a medium within a sewer; and
 reducing the content of a contaminant within the medium.
- 48. (Original) The method of claim 47, wherein at least one of the Fe-MGDA and the peroxide are in a vapor form.
- 49. (Original) The method of claim 47, wherein at least one of the Fe-MGDA and the peroxide are in a liquid form.
- 50. (Original) The method of claim 47, wherein the contaminant is in a vapor form.
- 51. (Original) The method of claim 47, wherein the contaminant is in a liquid form.
- 52. (Original) The method of claim 47, wherein the contaminant is in solid form.
- 53. (Original) The method of claim 47, wherein the Fe-MGDA is added at a constant rate.
- 54. (Original) The method of claim 47, wherein the FE-MGDA is added at a variable rate.
- 55. (Original) The method of claim 47, wherein the FE-MGDA is added intermittently.
- 56. (Original) The method of claim 47, wherein the peroxide is added at a constant rate.
- 57. (Original) The method of claim 47, wherein the peroxide is added at a variable rate.
- 58. (Original) The method of claim 47, wherein the peroxide is added intermittently.